

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/070,684	OHTSUKI, TOMOKO	
	<b>Examiner</b>	<b>Art Unit</b>	
	ARMANDO RODRIGUEZ	2828	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4-21-2006.
2. ☒ The allowed claim(s) is/are 1-64.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
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## **DETAILED ACTION**

### ***Response to Arguments***

Applicant's arguments, see pages 1 and 2, filed April 21, 2006, with respect to claims 1-12, 15-52, 59-64 have been fully considered and are persuasive. The rejection of claims 1-12, 15-52, 59-64 has been withdrawn.

### ***Priority***

Applicant's submission of the certified English translation of foreign application 11/258133 to overcome the cited prior art of Ohtsuki et al (6,590,698) is acknowledged.

### ***Allowable Subject Matter***

Claims 1-64 are allowed.

The following is an examiner's statement of reasons for allowance:

After reviewing applicant's amendment and conducting an updated search of none of the searched prior arts alone or in combination discloses the claimed laser with the recited structural combination of independent claims 1,2,5,9,11,13,17.

Regarding claims 1, 19-28,

None of the searched prior arts discloses the structural combination of independent claim 1, having a laser light generator, an optical fiber amplifier and in particular having a plurality of nonlinear crystals for wavelength converting with a plurality of temperature controllers for tune phase matching angles at the time of wavelength conversion and generating ultraviolet light.

Regarding claims 2-4, 29-34,

None of the searched prior arts discloses the structural combination of independent claim 2, having a laser light generator, an optical fiber amplifier and in particular having a plurality of nonlinear crystals including a lithium tetraborate crystal for wavelength converting and generating ultraviolet light.

Regarding claims 5-8, 35-40,

None of the searched prior arts discloses the structural combination of independent claim 5, having a laser light generator, an optical fiber amplifier and in particular having a plurality of nonlinear crystals including a KAB crystal for wavelength converting and generating ultraviolet light.

Regarding claims 9, 10, 41-46,

None of the searched prior arts discloses the structural combination of independent claim 9, having a laser light generator, an optical fiber amplifier and in particular having a plurality of nonlinear crystals including a GdYCOB crystal for wavelength converting and generating ultraviolet light.

Regarding claims 11, 12, 15, 16, 47-52,

None of the searched prior arts discloses the structural combination of independent claim 11, having a laser light generator, an optical fiber amplifier and in particular having a plurality of nonlinear crystals for wavelength converting generating ultraviolet light and a plurality of relay optical systems.

Regarding claims 13, 14, 53-58,

None of the searched prior arts discloses the structural combination of independent claim 13, having a laser light generator, a plurality of optical fiber amplifier

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a nonlinear crystal for wavelength converting generating ultraviolet light and a anisotropic optical system.

Regarding claims 17, 18, 59-64,

None of the searched prior arts discloses the structural combination of independent claim 17, having a laser light generator, an optical fiber amplifier and in particular having a plurality of nonlinear crystals including one of lithium tetraborate and KAB crystal for wavelength converting and generating ultraviolet light.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
ARMANDO RODRIGUEZ  
Primary Examiner  
Art Unit 2828

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